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Claim 5 (Amended) An implantable device covering comprising:
a sheet of flexible material having first and second surfaces,
the first surface being flat,
the second surface having peaks and troughs and being adapted to interface
with body tissues characterized in that the covering is separated from and unattached
to the said device.

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Claim 13 (Amended) An implantable device covering comprising:
a sheet of flexible material having first and second surfaces,
the first surface being less-textured than the second surface,
the second surface being textured and having first and second planar surfaces, the first and second
planar surfaces being in non-coplanar relation characterized in that the covering is separated from
and unattached to the said device.

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Please add the following new claims:

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94. The covering of claim 1 wherein the ridges and valleys have a plurality of regions of
varying heights, the tallest regions having a substantially planar upper surface, the planar surface
defining a first plane, and the lowest regions defining a second plane, where the second plane is non-
coplanar with the first plane.

95. The covering of claim 1 wherein the second surface comprises a pattern.

96. The covering of claim 95 wherein the pattern is predictable.

97. The covering of claim 95 wherein the pattern is repetitive.

98. The covering of claim 95 wherein the pattern is uniform.

99. The covering of claim 95 wherein the surface includes a plurality of hexcels.
100. The covering of claim 99 wherein the hexcels comprise nested hexcels.
101. The covering of claim 95 wherein the pattern includes geometric patterns.
102. The covering of claim 101 wherein the geometric pattern includes squares.
103. The covering of claim 101 wherein the geometric pattern includes circular patterns.
104. The covering of claim 94 wherein the lateral widths of the ridge regions and the valley regions differ.
105. The covering of claim 1 wherein the lateral width of the ridge regions is less than the width of the valley regions.
106. The covering of claim 1 wherein the ridges and valleys include planar regions and the ratio of the height of the second plane to the first plane measured relative to the first side is substantially 90% or less.
107. The covering of claim 106 wherein the ratio of the height of the second plane to the first plane measured relative to the first side is substantially 80% or less.
108. The covering of claim 106 wherein the ratio of the height of the second plane to the first plane measured relative to the first side is substantially 70% or less.
109. The covering of claim 106 wherein the ratio of the height of the second plane to the first plane measured relative to the first side is substantially 50%.
110. The covering of claim 1 wherein the covering is a laminated structure.
111. The covering of claim 110 wherein the covering is a multi-laminate structure.
112. The covering of claim 1 wherein the top surface of the ridge regions is substantially parallel to the surface of the valley regions.

113. The covering of claim 1 wherein the second surface is arranged to stimulate high tissue ingrowth.

114. The covering of claim 1 wherein the second surface is arranged to disorganize scar tissue.

115. The covering of claim 1 wherein the lowest region of the second surface comprises a fabricated surface.

116. The covering of claim 1 further including a device for implantation in the body, wherein the covering is disposed adjacent the device.

117. The covering of claim 116 wherein the second surface is oriented away from the device.

118. The covering of claim 116 wherein the second surface is oriented toward from the device.

119. The covering of claim 116 wherein the device is a prosthetic device.

120. The covering of claim 119 wherein the prosthetic device is an implant.

121. The covering of claim 119 wherein the implant is a gel filled implant.

122. The covering of claim 1 wherein the pattern includes a plurality of parallel wells.

123. The covering of claim 94 wherein the second plane is lower than the first plane by at least 7% of the thickness of the structure.

124. The covering of claim 94 wherein the second plane is lower than the first plane by at least 17% of the thickness of the structure.

125. The covering of claim 94 wherein the second plane is lower than the first plane by at least 27% of the thickness of the structure.

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